
REPORT OF ACTIVITIES: AUGUST, 2017 – APRIL, 2018

SUMMARY OF THE REPORT

1. MOXXI VISIBILITY ACTIONS & INITIATIVES;
2. MOXXI WORKSHOPS AND SESSIONS ORGANIZED IN THE PERIOD AUGUST, 2017 - APRIL, 2018;
3. FORTHCOMING EVENTS.

1. MOXXI VISIBILITY ACTIONS

The MOXXI WG executive team consists of: Flavia Tauro (University of Tuscia, Chair), Rolf Hut (Delft University of Technology), and Theresa Blume (GFZ German Research Centre for Geosciences, Potsdam).

- 1) We have strengthened the MOXXI community with dissemination activities at conferences and through the group newsletter.

Currently, the group consists of 131 "friends" from more than 15 countries. Many of them are using MOXXI webpage (on the IAHS website) to showcase their papers.

- 2) During this year, as Chair of the group, I have advertised MOXXI by contributing to the following international meeting:

Tauro F.: "Measurements and Observations in the XXI century (International Association of Hydrological Sciences) - Innovation and Multidisciplinarity in Hydrology", RemTech Esonda Expo, Smart Rivers International Conference 2017, Diked Rivers IV Session, September 22th, 2017, Ferrara, Italy.

- 3) The MOXXI community paper:

Flavia Tauro, John Selker, Nick van de Giesen, Tommaso Abrate, Remko Uijlenhoet, Maurizio Porfiri, Salvatore Manfreda, Kelly Caylor, Tommaso Moramarco, Jerome Benveniste, Giuseppe Ciralo, Lyndon Estes, Alessio Domeneghetti, Matthew T. Perks, Chiara Corbari, Ehsan Rabiei, Giovanni Ravazzani, Heye Bogena, Antoine Harfouche, Luca Brocca, Antonino Maltese, Andy Wickert, Angelica Tarpanelli, Stephen Good, Jose Manuel Lopez Alcalá, Andrea Petroselli, Christophe Cudennec, Theresa Blume, Rolf Hut & Salvatore Grimaldi (2018) **Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle**, Hydrological Sciences Journal, 63:2, 169-196, DOI: 10.1080/02626667.2017.1420191. (1058 reads and 2 citations)

will further strengthen the bonds among the community while offering a reference for current and future research in innovative hydrological observations.

- 4) MOXXI is actively participating in the recently approved *COST Action: "HARMONIOUS – Harmonization of UAS techniques for agricultural and natural ecosystems monitoring"*. The project is led by MOXXI's friend Dr. Salvatore Manfreda. The project is expected to foster a

wealth of initiatives on MOXXI topics in the following years. Members of the COST Action and MOXXI Friends have met in Geneva (MOXXI-WMO meeting in December 2017) and Valencia (COST Action first meeting in February 2018). Future joint initiatives are being encouraged (including paper writing, summer schools, and field campaigns).

2. MOXXI WORKSHOPS AND SESSIONS ORGANIZED IN THE PERIOD AUGUST, 2017 – APRIL, 2018

Second MOXXI Topical Conference:

The “*Innovation from Hydrometry – From Ideas to Operation*” has been jointly organized by MOXXI and WMO in Geneva (WMO Headquarters) in December 2017.

This two-half day workshop brought together members of the science and operations communities to learn about innovative observational methodologies and to foster the uptake of such novel solutions in operational environments.

On the first day, around 70 participants from all over the globe attended 28 short presentations followed by Q&A on a variety of topics, including flood gauging, monitoring networks, citizen science, and drone initiatives in hydrology.

On the second day, keynote talks, expert interviews, and breakout group discussions motivated the participants to identify key challenges and needs for the uptake of new technologies into hydrological practice.

According to a questionnaire administered by WMO after the event, 94% of the surveyed participants deemed both days either good or excellent.

The event has been briefed and advertised through the IUGG Electronic Journal as well (Volume 18 No.4, 1 April 2018).



Sessions at AGU and EGU:

- 2017 American Geophysical Union (AGU) Fall Meeting, poster session “The MacGyver Session. The Place for Novel, Exciting, Self Made, Hacked or Improved Sensors, Data Acquisition and Data Transmission Solutions to Understand The Geosphere”;
- 2018 European Geosciences Union (EGU) General Assembly, poster session “The MacGyver Session”;

3. FORTHCOMING EVENTS

- 2018 Hydroconference, WMO, Geneva
- 2019 **MOXXI meeting**, New York, NY, USA. We still have to finalize the organization. Most probably, the venue will be New York University, the meeting will be in early March 2019, and *CUAHSI* will be in the organizing committee.
- 2019 IUGG General Assembly, Canada: main MOXXI session: “MOXXI : Innovation and Multidisciplinarity to Observe Earth Processes”.

MOXXI Website

<https://iahs.info/Commissions--W-Groups/Working-Groups/MOXXI/>